

- 19 -

C L A I M S :

1. A tobacco smoke filter containing activated carbon impregnated with a metal impregnant, wherein the activated carbon is high activity activated carbon.
2. A tobacco smoke filter according to claim 1 wherein the metal impregnant is selected from one or more of copper, molybdenum, manganese, cobalt, zinc and iron.
3. A tobacco smoke filter according to claim 1 or claim 2 wherein the metal impregnant(s) is present in an amount which is not more than 10% of the dry weight of the high activity activated carbon.
4. A filter according to claim 3 wherein the metal impregnant(s) is present in an amount which is from 1 to 5% of the dry weight of the activated carbon.
5. A tobacco smoke filter according to any preceding claim wherein the metal impregnant is copper.
6. A tobacco smoke filter containing activated carbon which is impregnated with copper and molybdenum, wherein the ratio of copper to molybdenum is greater than 1.3 to 1.
7. A tobacco smoke filter containing activated carbon which is impregnated with copper and molybdenum, wherein the activated carbon is a high activity activated carbon.
8. A filter according to claim 6 or claim 7 wherein the copper and molybdenum are present in a combined amount which is not more than 10% of the dry weight of the activated carbon.

- 20 -

9. A filter according to any of claims 6, 7 or 8 wherein the copper and molybdenum are present in an amount which is from 1 to 5% of the dry weight of the activated carbon.

10. A filter according to any of claims 6 to 9 wherein the ratio of copper to molybdenum (by weight) in the impregnated activated carbon is greater than 2 to 1.

11. A filter according to any of claims 6 to 10 in which the ratio of copper to molybdenum (by weight) in the impregnated activated carbon is between 3.5 to 1 and 4.5 to 1.

12. A filter according to any of claims 6 to 11 in which the ratio of copper to molybdenum (by weight) in the impregnated activated carbon is 4 to 1.

13. A filter according to any preceding claim wherein the activated carbon has an activity of greater than 90% CTC prior to impregnation.

14. A filter according to any preceding claim wherein the activated carbon has an activity of greater than 100% CTC prior to impregnation.

15. A filter according to any preceding claim wherein the activated carbon has an activity of greater than 80% CTC after impregnation.

16. A filter according to any preceding claim wherein the activated carbon has an activity of greater than 90% CTC after impregnation.

- 21 -

17. A filter according to any preceding claim in which substantially all of the activated carbon is of particle size between 2mm and 0.15mm.

18. A filter according to any preceding claim in which substantially all of the activated carbon is of particle size between 0.6mm and 0.212mm.

19. A filter according to any preceding claim which contains between 10mg and 150mg of activated carbon.

20. A filter according to any preceding claim which contains between 30mg and 60mg of activated carbon.

21. A filter according to any preceding claim which further comprises one or more additional adsorbents.

22. A filter according to claim 16 wherein the additional adsorbent(s) selectively removes a compound(s) present in the VP fraction of cigarette smoke other than HCN.

23. A tobacco smoke filter substantially as hereinbefore described with reference to the description and examples.

24. A tobacco smoke filter substantially as hereinbefore described with reference to the attached Figures 1 and 2.

25. A tobacco smoke filter substantially as hereinbefore described with reference to the attached Figure 3.

26. A filter cigarette comprising a filter according to any preceding claim joined at its upstream end to a wrapped tobacco rod.